

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P399920

Luminaire Tested: **ARCH-L-PA3-210-730-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399920  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-210-730-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28080 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

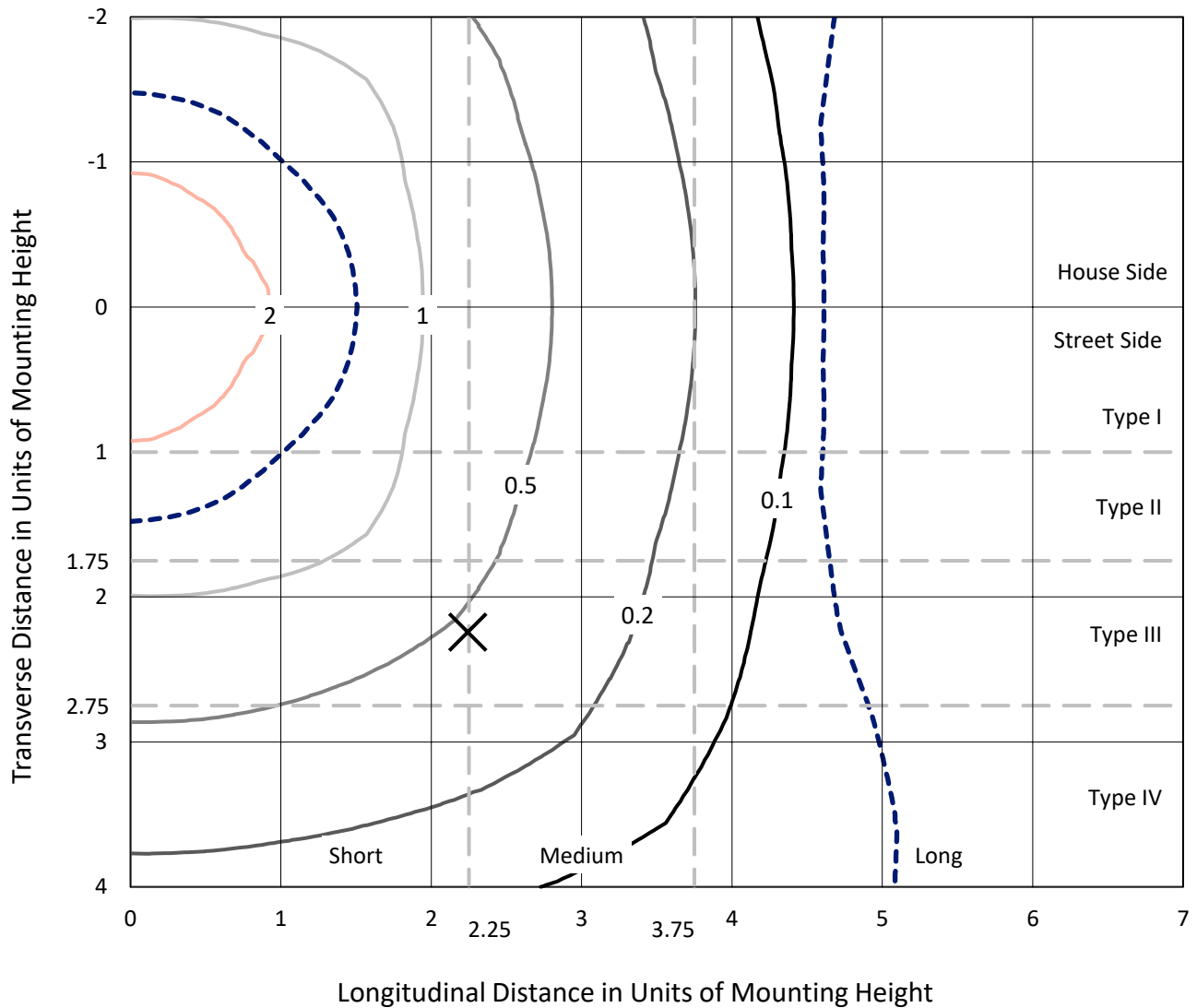
Input Watts (W): 211  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

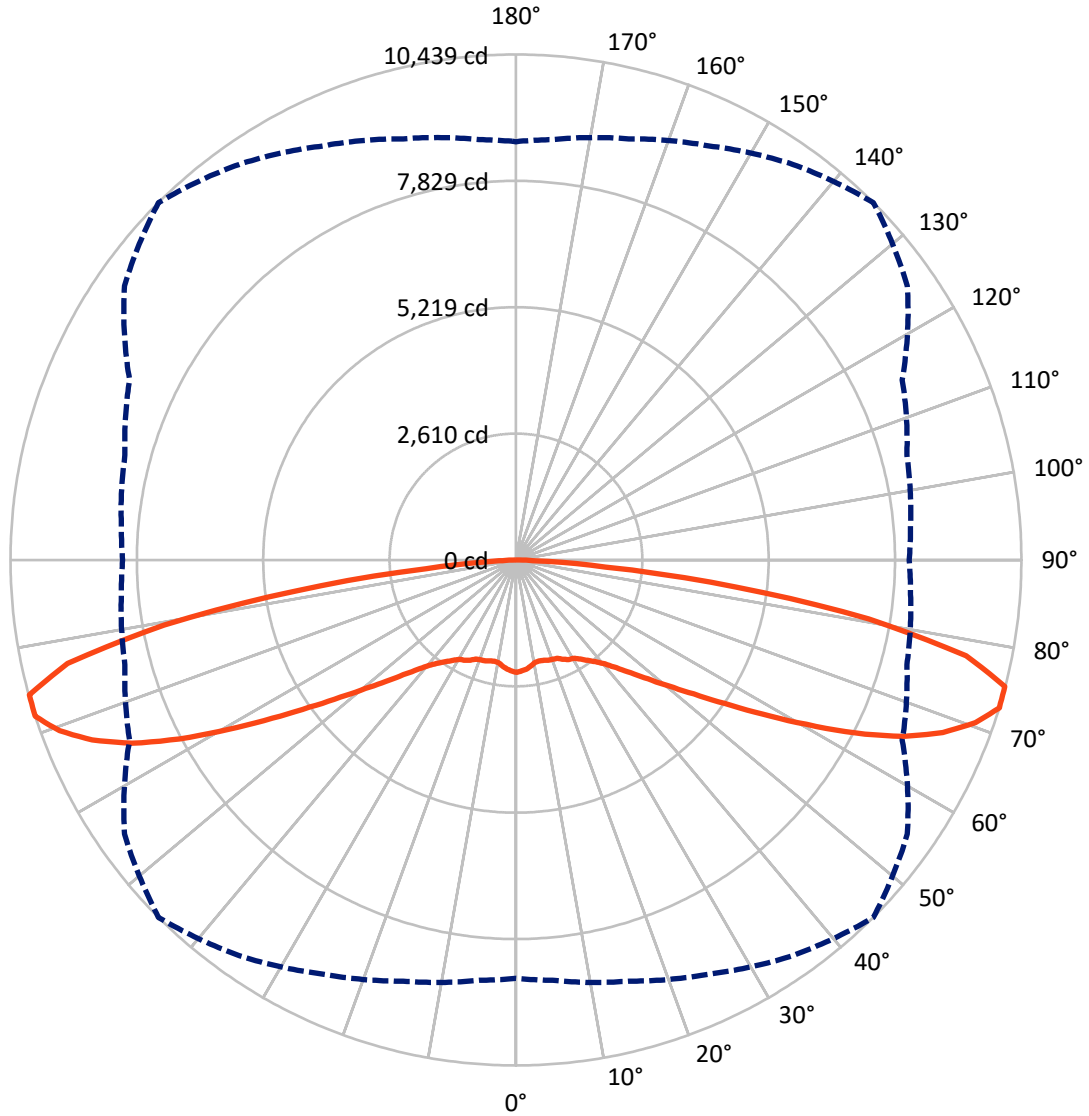
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical



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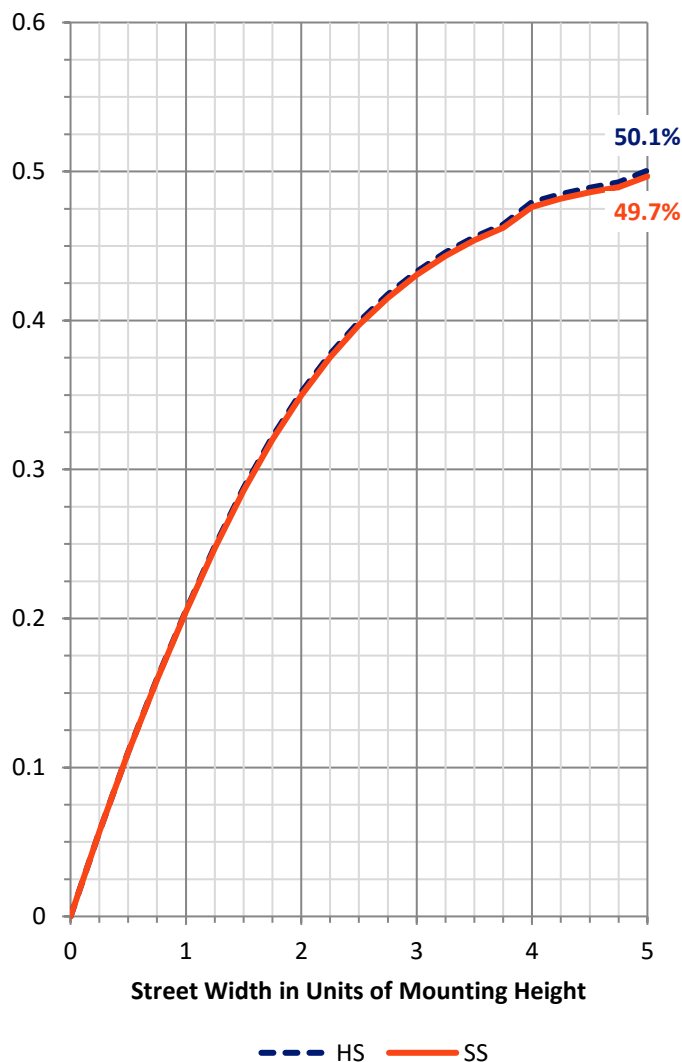
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14040.0	0.0	14040.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14040.0	0.0	14040.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28080.0	0.0	28080.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.1	0.8
10°-20°	618.5	2.2
20°-30°	1050.9	3.7
30°-40°	1602.9	5.7
40°-50°	2639.4	9.4
50°-60°	4609.2	16.4
60°-70°	7727.4	27.5
70°-80°	8269.9	29.5
80°-90°	1348.8	4.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	28080.0	100.0
0°-180°	28080.0	100.0

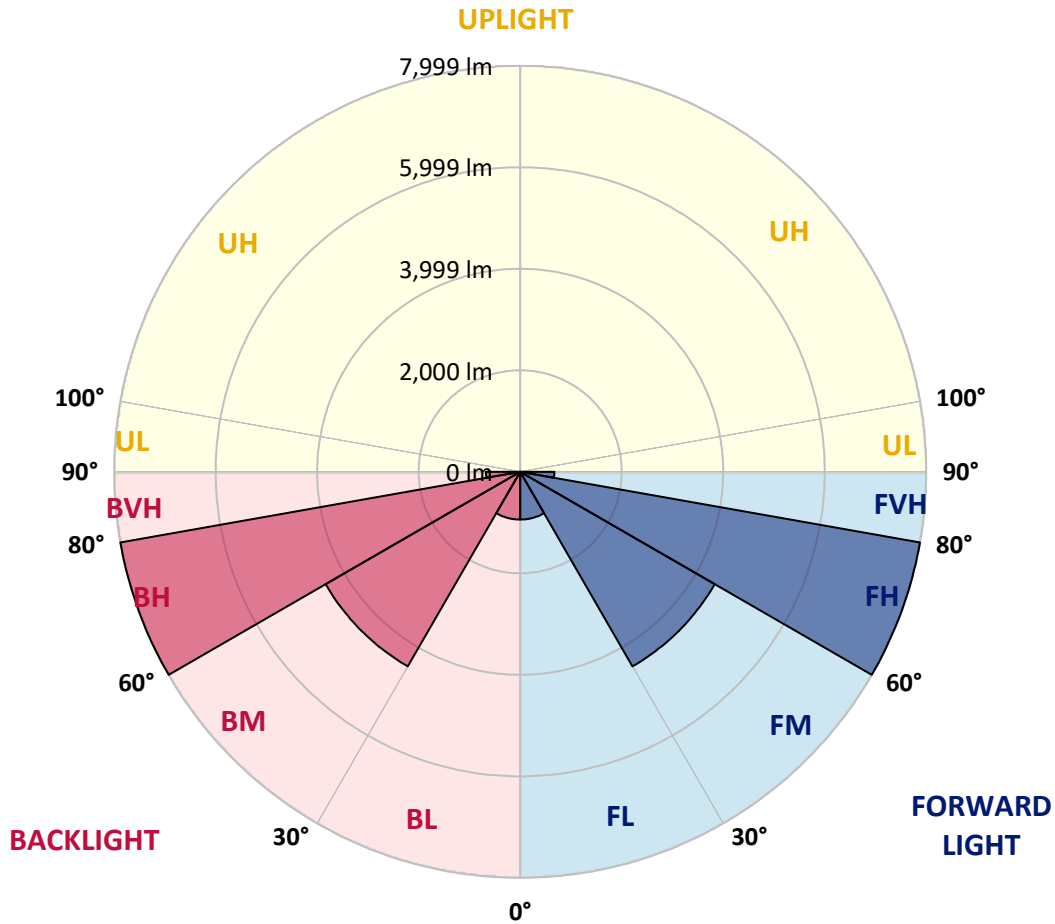


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	941.2	3.4			
FM (30°-60°)	4425.7	15.8			
FH (60°-80°)	7998.6	28.5			G4/12000
FVH (80°-90°)	674.4	2.4			G4/750
BL (0°-30°)	941.2	3.4	B2/1000		
BM (30°-60°)	4425.7	15.8	B3/5000		
BH (60°-80°)	7998.6	28.5	B5		G4/12000
BVH (80°-90°)	674.4	2.4			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7
2.5°	2309.3	2309.3	2309.3	2305.7	2298.6	2295.0	2287.8	2291.4	2291.4	2291.4	2291.4
5°	2280.6	2280.6	2277.0	2273.4	2266.3	2262.7	2255.5	2262.7	2262.7	2262.7	2262.7
7.5°	2226.8	2230.4	2230.4	2226.8	2216.1	2212.5	2201.7	2205.3	2205.3	2208.9	2205.3
10°	2198.1	2198.1	2194.6	2176.6	2158.7	2151.5	2147.9	2158.7	2169.5	2180.2	2180.2
12.5°	2198.1	2198.1	2191.0	2162.3	2137.2	2137.2	2137.2	2151.5	2173.0	2194.6	2198.1
15°	2208.9	2208.9	2194.6	2162.3	2147.9	2151.5	2151.5	2165.9	2191.0	2219.7	2223.2
17.5°	2216.1	2216.1	2198.1	2165.9	2165.9	2176.6	2169.5	2180.2	2205.3	2237.6	2241.2
20°	2226.8	2226.8	2201.7	2176.6	2176.6	2187.4	2187.4	2198.1	2219.7	2251.9	2255.5
22.5°	2248.3	2244.8	2219.7	2198.1	2198.1	2205.3	2212.5	2226.8	2244.8	2273.4	2280.6
25°	2273.4	2273.4	2251.9	2248.3	2255.5	2273.4	2269.9	2266.3	2273.4	2298.6	2309.3
27.5°	2287.8	2287.8	2273.4	2284.2	2312.9	2327.2	2309.3	2295.0	2295.0	2320.1	2323.7
30°	2334.4	2330.8	2316.5	2323.7	2348.8	2355.9	2345.2	2327.2	2338.0	2366.7	2370.3
32.5°	2413.3	2413.3	2391.8	2391.8	2409.7	2438.4	2402.5	2391.8	2406.1	2438.4	2442.0
35°	2535.2	2535.2	2506.5	2492.2	2506.5	2546.0	2492.2	2488.6	2513.7	2549.6	2553.1
37.5°	2689.4	2689.4	2671.5	2635.6	2639.2	2664.3	2617.7	2614.1	2660.7	2700.2	2700.2
40°	2883.0	2893.8	2875.9	2832.8	2818.5	2822.1	2786.2	2789.8	2843.6	2890.2	2890.2
42.5°	3123.3	3130.5	3101.8	3069.5	3051.6	3040.8	3005.0	3012.1	3076.7	3137.6	3137.6
45°	3413.8	3417.3	3388.7	3349.2	3327.7	3320.5	3284.7	3302.6	3374.3	3438.9	3435.3
47.5°	3740.1	3743.7	3715.0	3675.5	3661.2	3671.9	3636.1	3636.1	3700.6	3754.4	3747.2
50°	4109.4	4116.6	4084.3	4066.4	4055.6	4084.3	4041.3	4001.8	4044.9	4098.7	4091.5
52.5°	4518.2	4536.1	4514.6	4521.8	4561.2	4597.1	4525.4	4439.3	4460.8	4496.7	4485.9
55°	5013.1	5034.6	5041.7	5066.9	5170.8	5231.8	5113.5	4970.0	4959.3	4962.9	4944.9
57.5°	5568.9	5583.2	5629.8	5687.2	5902.4	5999.2	5812.7	5565.3	5486.4	5439.8	5429.0
60°	6128.3	6153.4	6268.1	6386.5	6716.4	6892.1	6605.2	6189.2	6020.7	5934.6	5916.7
62.5°	6691.3	6741.5	6927.9	7128.7	7609.2	7871.0	7429.9	6827.5	6583.7	6476.1	6447.4
65°	7343.9	7404.8	7630.8	7885.4	8419.6	8789.0	8254.7	7487.3	7225.6	7082.1	7046.3
67.5°	8107.7	8172.2	8355.1	8638.4	9144.0	9506.2	9032.8	8161.5	7820.8	7637.9	7609.2
70°	8735.2	8792.6	8989.8	9276.7	9653.2	10065.6	9613.7	8699.3	8391.0	8261.9	8243.9
72.5°	8638.4	8713.7	9004.1	9434.5	9972.3	10438.5	9868.3	8803.3	8358.7	8179.4	8122.0
75°	7544.7	7627.2	7971.4	8749.6	9732.1	10427.7	9499.0	8111.3	7587.7	7437.1	7408.4
77.5°	4995.1	5074.0	5654.9	6881.3	8498.5	9502.6	8383.8	6795.2	5952.6	5590.4	5568.9
80°	2018.9	2119.3	2675.1	3976.7	6024.3	7386.9	6217.9	4349.7	2933.3	2366.7	2251.9
82.5°	469.8	559.4	814.0	1466.6	3083.9	4600.7	3352.8	1624.4	943.1	670.6	602.4
85°	197.2	200.8	347.8	476.9	964.6	1857.5	1097.3	591.7	480.5	351.4	344.2
87.5°	75.3	78.9	168.5	200.8	308.4	351.4	372.9	304.8	283.3	175.7	168.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)